## IN THE CLAIMS:

The pending claims are set forth below and have been amended and/or cancelled, without prejudice, where noted:

- 1. (Cancelled)
- 2. (Currently Amended) The composition of claim  $\frac{1}{2}$  51, wherein R' is a  $C_1 C_4$  alkyl group or an mononuclear aryl group which may be is substituted or unsubstituted and R" is a  $C_1 C_4$  alkyl group or an mononuclear aryl group which may be is substituted or unsubstituted.
- 3. (Currently Amended) The composition of claim 4 51, wherein M is a transition metal selected from groups 8-10 of the Periodic Table.
- 4. (Original) The composition of claim 3 wherein M is iron or cobalt and n is 2.
- 5. (Currently Amended) The composition of claim 4 51, wherein A<sub>1</sub> is a an unsubstituted phenyl group or a mono-substituted, di-substituted or tri-substituted phenyl group.
- 6. (Currently Amended) The composition of claim 5 wherein A<sub>1</sub> is a phenyl group which is mono-substituted at the <u>para directly distal</u> position.
- 7. (Currently Amended) The composition of claim 5 wherein  $A_1$  is a di-substituted phenyl group substituted at the <u>ortho proximal</u> positions with  $C_1 C_4$  alkyl groups or is a tri-substituted phenyl group substituted with a  $C_1 C_4$  alkyl group at the <u>para directly</u> distal position and  $C_1 C_4$  alkyl groups at the <u>ortho proximal</u> positions.
- 8. (Currently Amended) The composition of claim 7 wherein  $A_2$  is a terphenyl group which may be is substituted or unsubstituted.
- 9. (Currently Amended) The composition of claim 8 wherein A<sub>2</sub> is a terphenyl group wherein the substituent phenyl groups are substituted on the primary <u>phenyl</u> group at the <u>proximal</u> <u>ortho</u> positions with respect to the coordinating nitrogen ion.
- 10. (Currently Amended) The composition of claim 9 wherein both of the <u>substituted</u> phenyl groups of  $A_2$  are substituted at the para positions with  $C_1 C_4$  alkyl groups.
- 11. (Cancelled)

12. (Currently Amended) The composition of claim 44 52, wherein M is iron or cobalt.

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- 13. (Currently Amended) The composition of claim 11 <u>52</u>, wherein  $A_1$  is a disubstituted phenyl group which is disubstituted at the <u>ortho proximal</u> positions with  $C_1$   $C_4$  alkyl groups.
- 14. (Original) The composition of claim 13 wherein  $A_2$  is a terphenyl group which may be substituted or unsubstituted.
- 15. (Currently Amended) The composition of claim 13 wherein  $A_1$  is di-substituted at the proximal ortho positions with isopropyl groups.
- 16. (Currently Amended) The composition of claim 11  $\underline{52}$ , wherein  $A_1$  is disubstituted at the <u>proximal ortho</u> positions with  $C_1 C_4$  alkyl groups and  $A_2$  is a polynuclear aromatic group.
- 17. (Currently Amended) The composition of claim 16 wherein  $A_2$  is a terphenyl group wherein the substituent phenyl groups are substituted on the primary <u>phenyl benzyl</u> group at the <u>preximal ortho</u> positions with respect to the coordinating nitrogen ion.
- 18. (Currently Amended) The composition of claim 17 wherein both of the substituted phenyl groups of  $A_2$  are substituted at the para positions with  $C_2 C_4$  alkyl groups having a higher molecular weight than the substituents of  $A_1$ .
- 19. (Cancelled)
- 20. (Currently Amended) The composition of claim 49 53, wherein  $R_2$  is an isopropylene group.
- 21. (Original) The composition of claim 20 wherein R<sub>4</sub> is hydrogen.
- 22. Currently Amended) The composition of claim 19 53, wherein Q is chlorine.
- 23. (Cancelled)
- 24. (Currently Amended) The composition of claim 23 54, wherein R<sub>4</sub> has a higher molecular weight than R<sub>2</sub>.

- 25. (Currently Amended) The composition of claim  $\frac{23}{54}$  wherein  $R_2$  is a methyl group.
- 26. (Original) The composition of claim 25 wherein R<sub>4</sub> is an isopropyl or tertiary butyl group.
- 27. (Original) The composition of claim 26 wherein R<sub>4</sub> is a tertiary butyl group.
- 28. (Original) The composition of claim 27 wherein Q is chlorine.
- 29. (Original) The composition of claim 28 wherein R<sub>I</sub> is a methyl group.

  Claims 30-50. (Cancelled)
- 51. (New) An olefin polymerization catalyst precursor composition comprising a C<sub>s</sub> symmetric catalyst precursor characterized by the formula:

$$\begin{array}{ccc}
R' & & & & & A_1 \\
C & = & N & & \\
\downarrow & & & \downarrow \\
PY & \longrightarrow & MQ_n \\
\downarrow & & & \uparrow \\
C & = & N \\
R'' & & & A_2
\end{array}$$

wherein M is a transition metal selected from groups 8 to 10 of the Periodic Table; n is an integer of from 1 to 3; Q is a halogen or a C<sub>1</sub> to C<sub>2</sub> alkyl group; PY is a pyridinyl group, which is coordinated with M through the nitrogen atom of said pyridinyl group; R' is a C<sub>1</sub> to C<sub>20</sub> hydrocarbyl group; R' is a C<sub>1</sub> to C<sub>20</sub> hydrocarbyl group; A<sub>1</sub> is a monoaromatic group, which is substituted or unsubstituted; and A<sub>2</sub> comprises multiple aromatic groups, which is substituted or unsubstituted, wherein the C=N bonded groups are excluded from A<sub>1</sub> and A<sub>2</sub>.

52. (New) An olefin polymerization catalyst precursor composition comprising a C<sub>s</sub> symmetric catalyst component characterized by the formula:

$$CH_3 \qquad C = N$$

$$\downarrow \qquad \qquad \downarrow \qquad \qquad \downarrow$$

$$PY \longrightarrow MQ_2$$

$$\downarrow \qquad \qquad \uparrow$$

$$C = N$$

$$CH_2 \qquad 5$$

COS-957 1st ROA

wherein M is a transition metal selected from the group consisting of iron, cobalt, nickel and copper; Q is a halogen or a  $C_1 - C_2$  alkyl group; PY is a pyridinyl group, which is coordinated with M through the nitrogen atom of said pyridinyl group;  $A_1$  is an aromatic group which is substituted or unsubstituted; and  $A_2$  is an aromatic group, which is substituted to provide a structure which is sterically different from  $A_1$  and wherein the C=N bonded groups are excluded from  $A_1$  and  $A_2$ .

53. (New) An olefin polymerization catalyst precursor composition comprising a C<sub>s</sub> symmetric catalyst component characterized by the formula:

$$R_2$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_5$ 

wherein Q is a halogen or a  $C_1 - C_2$  alkyl group;  $R_1$  is a H or  $C_1 - C_4$  alkyl group;  $R_2$  is a  $C_1 - C_4$  alkyl group;  $R_3$  is hydrogen or a  $C_1 - C_4$  alkyl group;  $R_5$  is hydrogen or a  $C_1 - C_4$  alkyl group which is the same as or different from  $R_3$ ;  $R_4$  is hydrogen or a  $C_1 - C_4$  alkyl group.

54. (New) An olefin polymerization catalyst precursor composition comprising a C<sub>s</sub> symmetric catalyst component characterized by the formula:

$$R_2$$
 $R_2$ 
 $R_2$ 
 $R_2$ 
 $R_2$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_4$ 

wherein Q is a halogen or a  $C_1$  -  $C_2$  alkyl group;  $R_1$  is a hydrogen or a methyl group;  $R_2$ is a methyl or isopropyl group; and  $R_4$  is a  $C_1 - C_4$  alkyl group.